

Re: Preliminary Amendment
June 15, 2001
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IN THE DRAWINGS

The drawings (Figs. 1-3) as filed in PCT International Application No. PCT/KR99/00798 were attached to the subject PCT application due to a clerical error; and therefore the drawings were amended during International Preliminary Examination (IPE) under Article 34. A copy of the amended drawings is attached.

It is respectfully requested that the attached drawings (Figs. 1-3), amended during International Preliminary Examination (IPE) under Article 34, be entered into the prosecution history of the subject application.

REMARKS

This Preliminary Amendment amends Claims 4 and 5 to produce new amended Claims 4 and 5, which are not multiply dependent. Claims 8 and 9 were added to provide similar coverage. Once examination on the merits has begun, the Applicant may elect to amend new amended Claims 4 and 5 to make this claim multiply dependent or to add additional claims to this application to provide coverage similar to, broader than, or narrower than the present claims.

Amendment of the subject application is respectfully requested.

Respectfully submitted,



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Enclosures: Appendix A (2 pages)
copy of IPE amended drawings (Figs. 1-3) (2 sheets)

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(VERSION WITH MARKINGS TO SHOW CHANGES)

Please amend the claims as follows:

said solid electrolyte is prepared by an activation procedure in which an ion conductive liquid electrolyte is absorbed into said electrolyte film, and

said ion conductive liquid electrolyte is obtained by dissolving one or two or more lithium salts selected from the group consisting of LiClO_4 , LiBF_4 , LiPF_6 , LiAsF_6 , LiSCN , LiCF_3SO_3 , $\text{LiN}(\text{CF}_3\text{SO}_2)_2$ and $\text{LiC}(\text{CF}_3\text{SO}_2)_3$ in a mixture of one or two or more organic solvents selected from the group consisting of ethylene carbonate, propylene carbonate, dimethylcarbonate, diethylcarbonate, ethylmethylcarbonate, γ -butyrolactone, 1,3-dioxane, tetrahydrofuran, 2-methyltetrahydrofuran, dimethylsulfoxide, sulfolane, N,N-dimethylformamide, diglyme, triglyme and tetraglyme in a concentration of 0.5M to 2M.

Appendix A
(VERSION WITH MARKINGS TO SHOW CHANGES)

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5. (Amended) A solid electrolyte for rechargeable cells according to Claim 2 (or Claim 3), in which

said absorbent is a mixture of one or two or more selected from the group consisting of porous polymer particles such as polyethylene, polypropylene, polystyrene, polyurethane, pulp, cellulose, cork and wood powder; mineral particles such as clay, paragonite, montmorillonite and mica; synthetic oxide compounds particles such as zeolite, porous silica and porous alumina; mesoporous molecular sieves having 2 to 30 nm of pore diameter made of oxide compounds or polymers; and other commercially available absorbents;

said polymer binder is a mixture of one or two or more selected from the group consisting of copolymers of polyvinylidene fluoride, vinylidene fluoride and hexafluoropropylene, copolymers of vinylidene fluoride and maleic anhydride, polyvinylchloride, polymethylmethacrylate, polymethacrylate, cellulose triacetate, polyurethane, polysulfone, polyether, polyethylene, polypropylene, polyethylene oxide, polyisobutylene, polybutylidene, polyvinylalcohol, polyacrylonitrile, polyimide, polyvinyl formal, acrylonitrilebutyldiene rubber, ethylene-propylene-diene-monomer, tetraethyleneglycol diacrylate, polydimethylsiloxane, polycarbonate and silicon polymer, or their copolymer;

said solvent for dissolving polymer binders is a mixture of one or two or more solvents selected from the group consisting of N-methylpyrrolidinone, dimethylformamide, dimethylacetamide, tetrahydrofuran, acetonitrile, cyclohexanone, chloroform, dichloromethane, hexamethylphosphoramide, dimethylsulfoxide, acetone and dioxane; and

said non-solvent for the polymer binders is a mixture of one or two or more selected from the group consisting of water, ethanol, ethylene glycol, glycerol, acetone, dichloromethane, ethylacetate, butanol, pentanol, hexanol and ether.

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